$ 1.50

denver apple pi Seed

Newsletter for Denver's Apple users

Volume 7 Number 7 July 1985

PRES - REPORT

July will be the first time in a long time that Apple Pi will not have its normal Thursday meeting. The meeting (normaly held on the first Thursday) conflicted with the 4th of July. It was decided a couple of months age to combine the general meeting and the core meet on Sunday July 7th. Hope to see you then.

We are still looking for a new editor for the Seed. We have a couple of people that have offered to help but could not take the whole job. If you have a flair for writing and want to get involved them this is your big chance. The job is not hard and all the paste up and printing is taken care of. If you are interested please give me a call 426-3482.

One of the big tasks that the board of directors has taken on is to find a home for the hard copy library. We are looking for a place that the library can be made available to the members. If you know of such a place (especialy if there is a copy machine near by) please let us know. We would need a place (room) about 10' x 10'. We have hundreds of newsletters and magazines that we would love to make available to the members.

If you have articles for the Seed or programs for the disk library please bring them in. Apple pi has grown because of the support of the members. All contributions are greatly accepted.

See you at the Core Meet!

-==- Randy -==-

** NOTICE **

Applr Pi will not have a general meeting in July because of the 4th of July holiday. Rather than try to change the meeting times and dates the general meeting will be replaced by a pinic meeting at the Core Meet, July 7th. We would like to see a big turn out for this special Core Meet and will have the library set up and the Pi store as per normal. The facility for the Core Meet, Cleare Creek Office Park, is right on Clear Creek with grass, trees, and outdoor tables. There is a pop machine but you should plan to bring food and drinks as we don't know how many people might attend.

Imagewriter Printer Disk Available

Attention Imagewriter Owners! The club now has available an Imagewriter printer disk for the IIe with Super Serial Card. The disk will be available for $5.00 from the Apple Pi Store.

On the disk you will find a printer font editor-developer with download program and 21 developed fonts. Also, there is a diskette labeler which will write the catalog of a disk to a 1 7/16 x 4 inch label that can be applied to the diskette. Finally, the disk includes a printer setup and reset program, example screen dump routines, and other utilities.

If you have wanted to create a new font but were not able to decipher the instructions in the Imagewriter Manual, then this is for you! The disk not only includes fully developed fonts but also includes a utility to edit a font to create your own custom characters. So, if you haven't purchased a commercial printer program already, give ours a try.

$2

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+:+:+:

ProDOS Tech. notes

ProDOS Technical Note # 1

The GETLN Input Buffer and the ThunderClock

The ThunderClock is automatically supported by ProDOS when ever it is identified as installed in the system. When Programming under ProDOS, always consider the ThunderClock's impact on the GETLN input buffer ($200 - $2FF). ProDOS can support other clocks which may also use this space.

When ever the ThunderClock receives a call from ProDOS, it deposits an ascii string in the GETLN input buffer of the form:

07,04,14,22,46,57

which translates as:

07 = The month, JULY (01=JAN,...,12=DEC)
04 = The day-of-the-week, THURSDAY (00=SUN,..,06=SAT)
14 = The date, 14th (00 to 31)
22 = The hour, 10PM (00 to 23)
46 = The minute (00 to 59)
57 = The second (00 to 59)

ProDOS calls the ThunderClock as part of many of its routines. Anything in the first 17 bytes of the GETLN input buffer is subject to loss if the ThunderClock is installed and gets called.

It has been the practice of programmers, in general, to use the GETLN input buffer for every conceivable purpose. Therefore, an application should never store anything there. If your application has future need to know about the contents of the $200-$2FF space, it should be transferred to some other location to guarantee it will remain intact, particularly under ProDOS where a ThunderClock may regularly be overwriting the first 17 bytes.

NOTE:

Tech. notes are special information about a subject. For the next few months the Seed will publish all the ProDOS Tech. notes.

ProDOS Technical Note # 2

Notes on Transporting DOS Assembly Language Programs to ProDOS (Passing Disk Commands Under BASIC.SYSTEM to ProDOS from Machine Code.)

Under DOS, commands were executed by a direct call to the proper address in DOS or by sending a string to COUT ($FDED) consisting of [CTRL-D] <command> [RETURN].

The practice that became very common under DOS of making direct calls to the desired routines whithin DOS cannot be carried over to ProDOS. Apple Computer will not support any entries into the BASIC Command Interpreter or the ProDOS kernel that are not published by Apple. If you use any undocumented entries, your application will almost certainly not operate under future releases of ProDOS and BASIC.SYStem.

Passing disk commands as ASCII strings to COUT is not supported under ProDOS.

If you wish to issue a ProDOS command from a machine language module operating with Applesoft or if your application can permit the ProDOS BASIC Command Interpreter (BASIC.SYSTEM) to be co-resident in memory, you can still use an ASCII string. All that is necessary is to move the string, ending with a RETURN ($8D) to the GETLN buffer ($200) and then execute a JSR DOSCMD ($BE03) to execute the instruction on $200.

It is necessary that the JSR DOSCMD be performed in deferred mode (inside a program) and not in immediate mode. This also applies to the monitor program; while in the monitor you cannot do a $xxxxG to execute the code that contains the JSR DOSCMD. The reason for this is that BASIC.SYSTEM checks certain state flags. These flags are set correctly for the DOSCMD routine only while in deffered mode. DOSCMD was intended only to be used via a CALL inside a BASIC program.

There are certain commands that will NOT work correctly or as expected when initiated via DOSCMD. The following table lists those commands which work properly and those that do not.

PLEASE NOTE that some of the commands listed as not working properly may work well enough to suite your individual purposes. Also some commands will function (aldeit procariously) in immediate mode. IF YOU DECIDE TO USE THE COMMANDS IN THIS MANNER YOU ARE ON YOUR OWN.

Works Correctly and Returns Control to Calling Routine	Works Incorrectly and / or does not Return control to Calling Routine
Filing Commands:	
CATALOG, CAT	
PREFIX, PREFIX /pn	
CREATE	
RENAME	
DELETE	
LOCK	
UNLOCK	
Program Commands:	
	- (Dash)
	RUN
	LOAD
SAVE	
Programming Commands:	
	CHAIN
STORE	
RESTORE	
PR#	
IN#	
FRE	
Text File Commands:	
OPEN	
CLOSE	
	READ
	WRITE
	APPEND
FLUSH	
POSITION	
EXEC Command:	
	EXEC
Binamry Commands:	
BRUN	
BLOAD	
BSAVE	

Attached is an example BASIC program that will BLOAD an assembly routine that will exercise the DOSCMD routine. The BASIC program is first LISTed and then RUN. A listing of the assembly routine follows. Please review it before writing your own routine.

DOSCMD is merely a means of performing some BASIC.SYSTEM commands from assembly language and is not a substitute for performing the commands in BASIC. Keep in mind all the consequences of the command you are executing; EG. When doing a BRUN or BLOAD make sure the code is loaded at suitable addresses.

Error Handling

Right after you CALL DOSCMD the carry BIT will tell you whether or not an error had occurred. The carry will be set if an error had occured. The accumulator will always have the error number.

DOSCMD error handling can be handled in one of three ways:

1. Do a JSR ERROUT ($BE09). This will return control to your BASIC ONERR routine where you can handle the error.

2. Do a JSR PRINTERR ($BE0C). This will print out the error and will return control to the point after the JSR (as usual).

3. You can handle the error yourself completely. If you choose to go this route make sure you clear the carry (CLC) before you return control back to BASIC.SYSTEM. If you don't it will be assumed some error has occurred and will do awful and unpredictable things to you.

```
================================================

10  REM YOU MUST CALL THE ROUTINE FROM INSIDE A
    BASIC PROGRAM!!
11  REM
12  REM
20  PRINT CHR$ (4)"BLOAD/P/PROGRAMS/CMD.O"
30  CALL 4096
40  PRINT "BACK TO THE WONDERFUL WORLD OF BASIC!"
50  END

]RUN

ENTER BASIC.SYSTEM COMMAND --> PREFIX
```

```
/P/

ENTER BASIC.SYSTEM COMMAND --> PREFIX/P/BUGS

ENTER BASIC.SYSTEM COMMAND --> PREFIX

/P/BUGS/

ENTER BASIC.SYSTEM COMMAND --> CATALOG

BUGS

NAME           TYPE  BLOCKS  MODIFIED         CREATED          ENDFILE SUBTYPE

SEQTEST         DIR       1  23-APR-84 16:12  23-APR-84 16:12      512
WRITEFIELDS     BAS       1  27-MAR-84 15:00  23-APR-84 16:13      182
R               BAS       1  27-MAR-84 15:29  23-APR-84 16:13      193
READFIELDS      BAS       1  27-MAR-84 15:17  23-APR-84 16:13      185
DUMPFILE        BAS       1  27-MAR-84 11:01  23-APR-84 16:13      191
POSTEST         BAS       1  27-MAR-84 16:50  23-APR-84 16:13      174
MAKEJUNK        BAS       1  29-MAR-84 14:10  23-APR-84 16:13       82
P1              BAS       1   3-AUG-84 17:53  23-APR-84 16:15      416

BLOCKS FREE: 6215    BLOCKS USED: 3513      TOTAL BLOCKS: 9728

ENTER BASIC.SYSTEM COMMAND --> DO DA, DO DA

SYNTAX ERROR
BACK TO THE WONDERFUL WORLD OF BASIC!
```

```
SOURCE   FILE #01 =>/P/PROGRAMS/CMD
----- NEXT OBJECT FILE NAME IS /P/PROGRAMS/CMD.O
1000:         1000    1          ORG   $1000
1000:         FD6F    2 GETLN1   EQU   $FD6F       ; MONITORS INPUT ROUTINE
1000:         BE03    3 DOSCMD   EQU   $BE03       ; BASIC.SYSTEM GLBL PG DOS CMD ENTRY
1000:         FDED    4 COUT     EQU   $FDED       ; MONITORS CHAR OUT ROUTINE
1000:         BE0C    5 PRERR    EQU   $BE0C       ; PRINT THE ERROR
1000:                 6 #
1000:                 7 #
1000:                 8 #
1000:A2 00            9 START    LDX   #0          ; DISPLAY PROMPT...
1002:BD 1F 10        10 L1       LDA   PROMPT,X    ;
1005:F8 B6   100D    11          BEQ   COUT        ; BRANCH IF END OF STRING
1007:20 ED FD        12          JSR   COUT        ;
100A:EB              13          INX               ;
100B:D0 F5   1002    14          BNE   L1          ; LOOP UNTIL NULL TERMINATOR IS HIT...
100D:                15 #
100D:20 6F FD        16 CONT     JSR   GETLN1      ; NOW ACCEPT USER COMMAND FROM KB
1010:20 03 BE        17          JSR   DOSCMD      ; AND EXECUTE THE COMMAND
1013:2C 10 C0        18          BIT   $C010       ; CLEAR STROBE SO KEY WON'T HANG ARROUND..
1016:B0 02   101A    19          BCS   ERROR       ; BRANCH IF ERROR DETECTED
1018:90 E6   1000    20          BCS   START       ; OTHERWISE RESTART
101A:                21 #
```

LIBRARIAN'S REPORT

DOM sales in June totaled 50, and 82 library copies were made at the Core meet. Also, 24 hardcopy library catalogs were given away. Since there are still some catalogs left, we will distribute those first come first served at the July Core meet. And speaking of the July meet, there will be no general meeting to demonstrate the DOM so the DOM's will be available at the Core-picnic meet.

The July DOM contains the programs listed on the label below. There are 19 programs with 7 free sectors. Included are the programming contest winners which were published in the May Seed and which was won by the Thornton High School Computer Club. Also included is an enhanced version of the mini data base published in the June Seed.

The feature programs for July are Beach Party, Disk Doctor, Wonderful Math, and Kidworks. Beach Party is an arcade game created with Broderbund's Arcade Machine. It requires a joystick, has super graphics, sound, animation, and color and came from NIAUG. Disk Doctor is an 80 column DOS 3.3 disk zap downloaded from Compuserve and includes a user's manual on disk. Wonderful Math and Kidworks are educational programs contributed by club members. Wonderful does some interesting area computations while Kidworks is a simple word processor for children. Other July DOM programs include 3 hi-res graphics programs, a disk certifier, and a catalog editor.

Denver Apple Pi's Disk of the Month

#060 JULY 1985 DOM

APPLE PI DOM JULY 198	MINI MAILING LIST	SUPER SINE WAVES
MEMORY RANGE FINDER	BEACH PARTY	LUNAR LANDER
PLANET WARS	KIDWORKS	MINI DATA BASE
WHICH STATE IS IT	WONDERFUL MATH	APPLESOFT TO TEXT
CATALOG EDIT 1.0	DISK DOCTOR	DISK DOCTOR DOCUMENTA
DISK SCAN 1.6	GET PASCAL 2.2	MENU
MENU & READER	TEXTFILE/ARTFILE PRIN	APPLEPICREDIT
CAPITALS OF STATES V.	K.[illegible]ORKS.MENU	PICTR.DOM JULY

Please note that the library listing disk has been updated and you will probably want to have your copy updated as well. For those of you who haven't looked at the library disk for several months, you will find an exceptional new listing reader program written by Bob Garth and donated to the club.

See you at the core meet.

--Ed Thompson, Librarian--

THE STORE MEMBERS

COLORADO SOFTWARE CONNECTION
P.O. BOX 29869 DENVER, CO 80229-0869 (303) 756-8819

Connecting Point

adam's computers, inc.
3355 So. Wadsworth Blvd.
Lakewood, CO 80227 (303) 986-9655

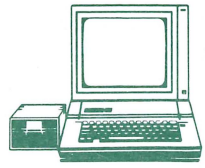
colorado Computer Systems, Inc.
3005 West 74th Avenue
Westminster, CO 80030 (303) 426-5880

ComputerLand®
8749 Wadsworth Blvd.
Arvada, CO 80003 (303) 420-1877

ComputerLand®
2422 So. Colorado Blvd.
Denver, CO 80222 (303) 759-9140

The Neighborhood COMPUTER STORE
13045 West Alameda Parkway
Lakewood, CO 80228 (303) 988-9140

JOHNNY APPLESEED



Dear John,

I have an Apple //c with an Imagewriter. Occasionally, when I am printing on single-sheet paper, the printer stops printing because it senses the end of the page. It is possible to wire around the paper-out sensor to solve this problem?

Out of paper

Dear Out of paper,

Yes, it is possible to bypass the paper-out sensor, but I strongly recommend that you don't try it. Any time that you make a hard-wired modification to an Apple product, you void the warranty. Most likely, you would prefer the your warranty be valid when you take your printer in for service.

I think there is an easier solution: an extra disk jacket. Almost every computer user has an extra mutilated disk jacket rotting away under the disk driver. Set this jacket beside your printer, and when it gets to the end of the page, just stick the jacket in behind the paper. While other items will work just as well, a disk jacket seems to be of just the right rigidity to be convienient.

John

Dear John,

I have seen advertisments for JRT/Pascal and JRT/Fortran in magazines for $29.95. How can it be possible that these are the complete language system for that price? Is the software even worth the $29.95??

Shopping for Compilers

Dear Shopping,

Your question is a rather difficult one -- the answer depends on how you define a "complete language system." Yes, for the $29.95 you send, you do receive a disk containing a compiler and an instruction manual. What you don't get is something that will allow you to edit your source file.

JRT suggests that you use the word-processor with which you are familiar. Unfortunately, the compiler runs under the Apple CP/M system -- and there aren't many people I know who use a CP/M based word-processor on their Apple. In fact, most people I know don't even have a CP/M based word-processor for their Apple. Thus, you're probably tied to using Microsoft's ED editor -- which is a line editor that operates in a batch-like environment.

Yes, you get the compiler. And, the compiler is a good one, well worth the $29.95. But, you probably won't enjoy trying to create a source file to feed to the compiler. The choice is yours, but personally, I find it very difficult to work with a system set up the way JRT is.

John

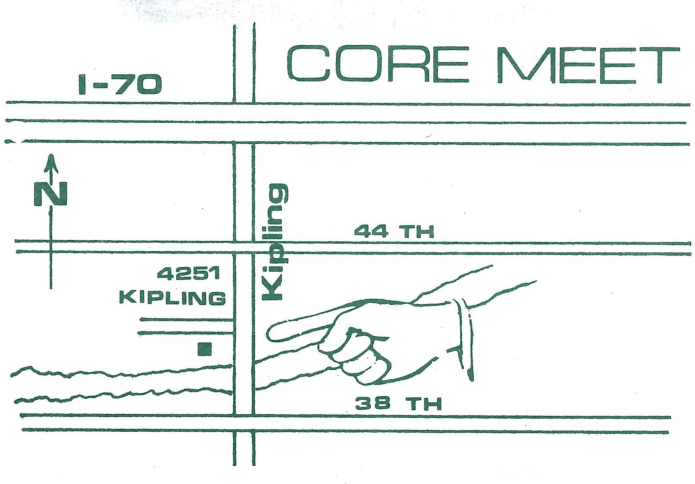
Questions? Send them to:

Johnny Appleseed
% Denver Apple Pi
P.O. Box 17467
Denver, CO 80217-0467

```
101A:                   22 #
101A:                   23 # NOTE: AFTER HANDLING YOUR ERROR YOU MUST CLEAR THE
101A:                   24 #       CARRY BEFORE RETURNING TO BASIC OR ELSE BASIC
101A:                   25 #       WILL DO STRANGE THINGS TO YOU.
101A:                   26 #
101A:20 0C BE           27 ERROR    JSR   PRERR        ; PRINT 'ERR'
101D:18                 28          CLC                ;
101E:60                 29          RTS                ; RETURN TO BASIC
101F:                   30 #
101F:                   31          MSB   ON
101F:                   32 #
101F:8D                 33 PROMPT   DB    $8D          ; OUTPUT A RETURN FIRST
1020:C5 CE D4 C5        34          ASC   'ENTER       BASIC.SYSTEM COMMAND --> '
103F:00                 35          DB    0
```

WANT TO START A SIG ?

LET US KNOW



WANTED TO BUY...

Used modem, Apple or Hayes, 300 Baud.
To use with my Apple II 64k.

Please call Bill Godfrey - 333-3324

Updated Denver Area BBS's

The response to last month's BBS list was unbelievable. As a result we now bring you a list expanded from 28 to 115! If you are aware of other BBS's, please send a message to me on the club board. *** Ed Thompson ***

1. Alpha Systems (C-64).....423-0567
2. Andromeda System (Apple).....371-3137
3. Apple Corps (APPLE).....758-7389
4. Aurora Net (Apple).....343-8401
5. Barsoma Institute (TRS-80).....431-6024
6. Bits 'N' Stuff (TRS-80).....733-8189
7. Biznet (Zenith).....292-9047
8. Boulder Bhai.....449-3306
9. Car's Rage (Apple).....233-9422
10. Carol's Video BBS (Apple).....444-9720
11. Castle (C-64).....467-0482
12. Chalkboard (Apple).....451-1250
13. Colo. Dept. of Educ. (Apple).....572-1093
14. Columbia Users (Columbia).....751-4053
15. Combat Connection (Apple).....771-8139
16. Com-Mart (C-64).....695-0783
17. Computer Oriented Geological Society..861-8115
18. Comm-Net CMD/VIC.....340-2473
19. Comm-Net (C-64).....366-3898
20. Comm-Net (C-64).....366-7177
21. Comm-Net (C-64).....366-2341
22. Controller Board (TRS).....690-9423
23. Court Room (Apple)..... 773-9291
24. CP/M SIG INC IBM (IBM).....465-1313
25. CPS/BBS (ATARI).....978-0298
26. Data-Bank (IBM).....494-0167
27. Data-Line (C-64).....320-4102
28. Deaf Net.....989-9245
29. Denhug (CPM).....423-3224
30. Doom --- Scanner (Apple).....939-5068
31. Dragon's Shadow (C-64).....841-3721
32. Dungeon of Mist (Columbia).....233-1250
33. Electronic Locksmith.....973-2167
34. Fido-Jr. (IBM PC JR).....789-4610
35. Fido-Net (IBM).....973-9338
36. Fidonet #334 (IBM).....534-5456
37. Fidonet #341 D.A.S.U.G. (Sanyo).....431-0051
38. Fido #434 (IBM).....659-3151
39. Fifth Dimension (Atari).....671-8794
40. Final Frontier (Apple).....440-7749
41. Forbidden Zone (Apple).....465-2027
42. GMCC - Fidonet (IBM).....497-6968
43. Gold Strike Board (Apple).....278-1487
44. Here and Now (Atari).....980-9367
45. IBM PC RBBS #3.....777-4326
46. I.D.S. Starcross (Apple).....781-8212
47. Inner Limits (Atari).....450-6238
48. Intercomix TBBS.....367-1935
49. John Galt Line (TRS-80).....337-1220
50. King's Market Bookshop (TRS-80).....665-6091
51. Les Com Net (Apple).....233-5824
52. Link (Apple).....429-4219
53. M*A*S*H (Apple).....469-8295
54. Melnibone.....238-5819
55. Micro 1040 BBS (TRS-80).....289-2061
56. Mile Hi FoRem (Atari).....431-1404
57. Mtn. States Epson Board (Epson).....298-8061
58. Multi-Discussion Board (Epson).....690-5379
59. Networks Unlimited (C-64).....296-3210
60. Odyssey 2.(Apple).....691-0169
61. Off the Wall (Apple).....443-3367
62. Online.....755-5380
63. P.DBMS #2.....755-5380
64. Para Psychology.....722-6210
65. Photo Board.....781-1079
66. Pirate's Pitt (C-64).....233-5969
67. Pirate Ship.....420-9851
68. Prodos GBBS (Apple).....770-7415
69. QCIN (Colo. Comm. Users) (C-64).....759-4275
70. RCP/M Boulder Lodge (CPM).....444-3253
71. RCP/M Denver Area (CPM).....989-9630
72. RCPM/RBBS (CPM).....985-1108
73. RCPM/RBBS (CPM).....499-9169
74. Real Gold Network (TRS-80).....699-8029
75. Republic BBS (TRS-80).....423-9699
76. R.I.P. (IBM).....449-3306
77. Shadow House (Apple).....699-6517
78. Skyline Computers (Atari).....758-2927
79. Snowflake (C-64).....278-4908
80. Software Review Board (TRS-80).....695-4518
81. Star Board (TRS).....455-3113
82. T-Zone (Apple).....427-7114
83. TBBS APPARAT (Apparat).....741-4071
84. TBBS HQ (TRS).....690-4566
85. TBBS #1 (TRS).....741-4071
86. TBBS #2 UFO Net (TRS).....278-4244
87. TBBS Parlor (Kaypro).....467-9580
88. Teacher's Chalkboard (Apple).....797-0429
89. The Advocate (C-64).....223-1297
90. The Airport (C-64).....421-9644
91. The Army.....771-9328
92. The Bunker (Apple).....466-2672
93. The Connection (TRS-80).....755-3888
94. The Data Emporium (IBM).....922-0615
95. The Hollow (Apple).....329-6342
96. The Neutral Zone (Apple).....985-9184
97. The Operating Room (Apple).....799-4579
98. The Overboard (Apple).....696-3791
99. The Police Station.....373-1417
100. The Resort (Apple).....425 2644

101. The Rock (Apple).....665-3490
102. The Sunboard.....431-9382
103. The Unknown BBS (CPM).....988-8155
104. The Wall (Apple).....449-0297
105. Third Sector...Forums (Apple.....936-3269
106. This Side Up (Apple).....422-3716
107. Transylvania (Apple).....989-4630
108. TRS-80 Club Board (TRS-80.....452-9567
109. Univ. of Aurora (Epson).....363-8474
110. Used Computer Bulletin Board.....293-2268
111. Waste Land (C-64).....694-4332
112. Werdna's Lair (Apple).....444-2764
113. Werdna's Lair II (Apple).....457-0338
114. Wizard's Sanction.....423-6462
115. World Peace RCP/M (Heath).....320-4822

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VP

by Tom Angelos

Highlights from last meetings speaker (June 6th).

Those of you who were not at the last meeting meiised out on an entertaining and enlightening presentation by ther Chief Deputy District Attorney, Mr. Jeff Bayless. Mr. Bayless, who spoke on computer crime, graduated from the University of Denver and has served as a law clerk for the Chief Judge of the U. S. District Court.

In his talk he defined computer crime by quoting from the Colorado Statute:

COMPUTER CRIME: Any person who knowingly uses any computer, computer system, computer network, or any part thereof for the purpose of devising or executing any scheme or artifice to defraud; obtaining money, property, or services by means of false or fraudulent pretenses, representations, or promises; USING THE PROPERTY OR SERVICES OF ANOTHER WITHOUT AUTHORIZATION; or comitting theft commits computer crime.

(Capital letters indicate new marerial recently added to the existing statute).

Twenty-two of the fifty states have statutes dealing with computer crime. Colorado's law was adopted from parts of Florida's and Georgia's statutes with some additons. Punishment is usually related to sentences received for comparable thefts and depends on the amount money involved in the felony. Computer crimes in Colorado usually involve losses of more than $ 10,000.00 and avarage $ 450,000.00. Mr. Bayless described how difficult it is for the D. A.'s office to prosecute because of reluctance to expose the techniques used to others; the desire to avoid the resultant publicity; and the lack of follow-thru when the impact of procecution is realized.

He recalled several computer crimes from his experience that involved credit cards, brokerage firms, etc. Those were categorized as "life style" crimes because they were not perpetrated to satisfy personal needs but rather to cater to a better life style. His experience also indicates that perpetrators of computer crime are unique in that they are not from a criminal environment and are not habitual criminals. When prosecuted they usually confess to their activities since they lack experience with court procedures and defense tactics.

Due to diligent homework the Denver District Attorney's office has a conviction rate of 100%. Their sentencing rate however, for a first offense is zero (.000%). The majority are first offenders and usually get probation. This was compared to the national sentencing rate which is .004%.

The Q & A session revealed that software piracy or invasion of a copyright is a civil case as opposed to a criminal case. However, there is precedent for a copied program being interpreted as taking a "thing of value" from an individual and therefore the violator can be prosecuted.

Next month we will not have a speaker as the Reg. meeting will be combined with the core meet.

ATTENTION! ATTENTION! ATTENTION!

LIMITED OFFER

Dear Club Members:

Cybertronics, Inc. has developed a unique method by which you can earn money with the IDLE TIME on your Apple computer (II, II+, IIe). APPLE USERS NATIONALLY ARE PARTICIPATING and we are prepared to offer you the same opportunity.

We will actually pay you to run our programs along with our peripherals. As much time as you want, as much income as you want, the option will be yours.

HOW TO TURN YOUR APPLE COMPUTER INTO A MONEY MAKING BUSINESS

* PROVEN TECHNOLOGY
* TAX ADVANTAGES
* SECONDARY INCOME
* EXCLUSIVE TERRITORIES
* INVESTMENT REQUIRED
* FULL MARKETING PROGRAM
* ON GOING TRAINING & SERVICE
* LIMITED AVAILABILTY

For details on our offering, contact Don Rehn, Cybertronics, Inc., Western Division, direct at (916) 222-2884 or leave a message at 1-800-522-1500, ext. 911. If you leave a message, please leave your name, your telephone number, and the best time to contact you.

This offering is extremely limited as we are only looking for a small number of installations in each area. We are offering it to Apple users on a first come, first serve basis.

Give Don a call...You've got nothing to lose and a whole lot to gain!

Sincerely,

Don Rehn

Don Rehn, President
X-Ronn West & Cybertronics Inc.,
Western Division

HAVE A GREAT 4th!

SEE YOU ON THE 7th

---

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